Project Title	Funding	Strategic Plan Objective	Institution
Modeling and pharmacologic treatment of autism spectrum disorders in Drosophila	$150,000	Q2.Other	Albert Einstein College of Medicine of Yeshiva University
Neurobiological correlates of language dysfunction in autism spectrum disorders	$405,921	Q2.Other	Alexian Brothers Medical Center
Tibial bone lead levels	$12,500	Q2.Other	Autism Associates of New York
Urinary assay for HPL	$11,048	Q2.Other	Autism House
Autism Treatment Program (ATP)	$700,000	Q2.6	Autism Speaks
Neural correlates of social exchange and valuation in autism	$150,000	Q2.5	Baylor College of Medicine
Plasticity in autism spectrum disorders: Magnetic stimulation studies	$46,826	Q2.Other	Beth Israel Deaconess Medical Center
Visual system connectivity in a high-risk model of autism	$41,000	Q2.Other	Boston Children's Hospital
The effects of Npas4 and Sema4d on inhibitory synapse formation	$150,000	Q2.Other	Boston Children's Hospital
The development of face processing	$516,410	Q2.Other	Boston Children's Hospital
Cognitive neuroscience -3	$70,933	Q2.Other	Boston Children's Hospital
Architecture of myelinated axons linking frontal cortical areas	$54,000	Q2.Other	Boston University
The neural substrates of repetitive behaviors in autism	$52,799	Q2.Other	Boston University Medical Campus
Autism: The neural substrates of language in siblings	$33,151	Q2.Other	Boston University Medical Campus
Neural substrates of gaze and face processing in autism	$152,671	Q2.Other	Boston University Medical Campus
Family characterization network - 2	$5,353	Q2.5	Boston University School of Medicine
Cognitive neuroscience - 2	$111,690	Q2.Other	Boston University School of Medicine
Brain region specific oxidative stress	$25,575	Q2.2	Brigham and Women's Hospital
Testing neurological models of autism	$315,526	Q2.Other	California Institute of Technology
Towards an endophenotype for amygdala dysfunction	$414,395	Q2.Other	California Institute of Technology
Visuospatial processing in adults and children with autism	$30,000	Q2.5	Carnegie Mellon University
Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	$28,000	Q2.5	Carnegie Mellon University
Functional neuroimaging of children with autism - 05	$3,853	Q2.Other	Carnegie Mellon University
Functional neuroimaging of children with autism - 06	$136,446	Q2.Other	Carnegie Mellon University
Neuronal oxidative stress in autism	$37,500	Q2.2	Case Western Reserve University
Presence of clostridia in children with and without ASD	$12,054	Q2.Other	Center for Autism and Related Disorders
Evaluation of sleep disturbance in children with ASD	$27,456	Q2.Other	Center for Autism and Related Disorders
Description and assessment of sensory abnormalities in ASD	$18,968	Q2.Other	Center for Autism and Related Disorders
The fusiform and amygalda in the pathobiology of autism	$312,347	Q2.Other	Children's Hospital of Philadelphia

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GABRBeta3 expression variation and the autism spectrum	$162,073	Q2.Other	Children's Memorial Hospital, Chicago
Past, present and future-oriented thinking about the self in children with ASD	$61,000	Q2.5	City University, London
Neural circuit deficits in animal models of Rett syndrome	$44,000	Q2.Other	Cold Spring Harbor Laboratory
Analysis of cortical circuits related to ASD gene candidates	$150,000	Q2.Other	Cold Spring Harbor Laboratory
Informational and neural bases of empathic accuracy in autism spectrum disorder	$28,000	Q2.5	Columbia University
BDNF secretion and neural precursor migration	$47,500	Q2.Other	Dana-Farber Cancer Institute
Restricted and repetitive behaviors in young children with autism	$233,365	Q2.5	Duke University
Neurocognitive basis of language processing in autism	$129,756	Q2.Other	Duquesne University
Neural mechanisms of social cognition and bonding - NIH	$28,536	Q2.Other	Emory University
Neural mechanisms of social cognition and bonding - AS	$31,500	Q2.Other	Emory University
Gaba(A) receptor modulation via the beta subunit	$228,787	Q2.Other	Emory University
Development behavioral & neurophysiological measures for early autism diagnosis	$28,536	Q2.Other	Emory University
Chemosensory processing in chemical communication	$280,890	Q2.Other	Florida State University
Functional MRI of attention regulation in people with and without autism	$22,831	Q2.5	Georgetown University
A model-based investigation of face processing in autism	$18,550	Q2.Other	Georgetown University
Psychophysiological mechanisms of emotion perception	$60,000	Q2.5	Georgia State University
Using genetically modified mice to explore the neuronal network involved in social recognition	$60,000	Q2.Other	Haifa University
Cortical mechanisms underlying visual motion processing impairments in autism	$60,000	Q2.5	Harvard Medical School
Phonological processing in the autism spectrum	$32,000	Q2.5	Heriot-Watt University
Psychosis and autoimmune diseases in Denmark	$184,218	Q2.2	Johns Hopkins University
Understanding perception and action in autism	$32,000	Q2.5	Kennedy Krieger Institute
Novel approaches for investigating the neurology of autism: Detailed morphometric analysis and correlation with motor impairment	$150,000	Q2.5	Kennedy Krieger Institute
Motor skill learning in autism	$327,316	Q2.Other	Kennedy Krieger Institute
Family characterization network - 1	$463,694	Q2.5	Massachusetts General Hospital
The mirror neuron system in the monkey and its role in action understanding	$222,870	Q2.Other	Massachusetts General Hospital

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Multimodal neuroimaging of white matter in autism	$698,987	Q2.Other	Massachusetts General Hospital
An adult brain-specific mouse model of neuronal TSC inactivation	$60,000	Q2.Other	Massachusetts General Hospital
Coherence and temporal dynamics in auditory cortex of children with autism	$87,875	Q2.Other	Massachusetts General Hospital
Cognitive neuroscience - 4	$80,571	Q2.Other	Massachusetts General Hospital
Role of Pam in synaptic morphology and function	$150,000	Q2.Other	Massachusetts General Hospital
Neural mechanisms for social cognition in ASD	$238,040	Q2.5	Massachusetts Institute of Technology
Neural substrate of language and social cognition: Autism and typical development	$44,846	Q2.5	Massachusetts Institute of Technology
Cognitive neuroscience - 1	$142,158	Q2.Other	Massachusetts Institute of Technology
Meg investigation of the neural substrates underlying visual perception in autism	$130,000	Q2.5	Massachussetts General Hospital
Imaging synaptic neurexin-neuroligin complexes by proximity biotinylation: Applications to the molecular pathogenesis of autism	$47,500	Q2.Other	Massachussetts Institute of Technology
Are neuronal defects in the cerebral cortex linked to autism?	$33,000	Q2.Other	Memorial Sloan-Kettering Cancer Center
Fraternal birth order effects on behavior	$205,200	Q2.2	Michigan State University
Neural mechanisms of attentional networks in autism	$2,282	Q2.5	Mount Sinai School of Medicine
Brain glutamate concentrations in autistic adolescents by MRS	$9,703	Q2.Other	Mount Sinai School of Medicine
Anterior cingulate and fronto-insular related brain networks in autism	$222,060	Q2.Other	Mount Sinai School of Medicine
Neuroimmunologic investigations of autism spectrum disorders (ASD)	$512,425	Q2.2	National Institutes of Health
Studies of central nervous system functional anatomy	$1,048,141	Q2.2	National Institutes of Health
Functional MRI method development	$3,074,547	Q2.Other	National Institutes of Health
Development of brain connectivity in autism	$300,000	Q2.5	New York School of Medicine
Oxidative stress and immune response in autism	$60,000	Q2.5	New York State Institute for Basic Research in Developmental Disabilities
Regulation of inflammatory TH17 cells in ASD	$112,500	Q2.2	New York University School of Medicine
Anatomical connectivity in the autistic brain	$84,666	Q2.Other	New York University School of Medicine
Influence of oxidative stress on transcription and alternative splicing of methionine synthase in autism	$28,000	Q2.2	Northeastern University
Role of neuroligin in synapse stability	$150,000	Q2.Other	Oklahoma Medical Research Foundation
Epstein-Barr virus research	$30,000	Q2.Other	Pediatric Gastrointestinal Association
Evaluation and treatment of copper/zinc imbalance in children with autism	$1,622	Q2.2	Penn State Milton S. Hershey Medical Center

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Optical analysis of circuit-level sensory processing in the cerebellum	$49,000	Q2.Other	Princeton University
Multisensory integration of faces and voices in the primate temporal lobe	$336,490	Q2.Other	Princeton University
Victimization, pragmatic language, and social and emotional competence in adolescents with ASD	$60,000	Q2.5	Queen's University
Markers of inflammation and oxidative damage	$50,000	Q2.2	Research Foundation for Mental Hygiene, Inc.
Cell repository	$4,318,579	Q2.1	Rutgers, The State University of New Jersey
Autism spectrum disorder and the visual analysis of human motion	$250,000	Q2.5	Rutgers, The State University of New Jersey
Assessing information processing and capacity for understanding language in non-verbal children with autism	$220,000	Q2.5	Rutgers University; City University of New York
Social and affective components of communication	$316,589	Q2.Other	Salk Institute For Biological Studies
Optimization of methods for production of both ICSI- and SCNT derived baboon	$2,284	Q2.Other	Southwest Foundation for Biomedical Research
Maternal inflammation alters fetal brain development via Tumor Necrosis Factor-alpha	$49,646	Q2.2	Stanford University
Investigation of cortical folding complexity in children with autism, their autism-discordant siblings, and controls	$100,000	Q2.5	Stanford University
Structural brain differences between autistic and typically-developing siblings	$2,802	Q2.Other	Stanford University
Maternal infection and autism: Impact of placental sufficiency and maternal inflammatory responses on fetal brain development	$130,000	Q2.Other	Stanford University
Cortical complexity in children with autism unaffected siblings and controls	$79,000	Q2.Other	Stanford University
L-type Ca2+ channel regulation of dendritic arborization	$32,845	Q2.Other	Stanford University
Social behavior deficits in autism: Role of amygdala	$110,000	Q2.Other	State University of New York Upstate Medical Center
Consequences of maternal antigen exposure on offspring immunity: An animal model of vertical tolerance	$137,000	Q2.Other	The Fox Chase Cancer Center
Dendritic organization within the cerebral cortex in autism	$140,000	Q2.5	The Open University
Exploring the role of synaptic proteins in mouse models of autism	$66,228	Q2.Other	The Rockefeller University
Behavioral and functional neuroimaging investigations of visual perception and cognition in autistics	$150,000	Q2.5	Université de Montréal
Identification and functional characterization of gene variants	$60,000	Q2.Other	Universita Campus Bio-Medico di Roma
A novel cell-based assay for autism research and drug discovery	$60,000	Q2.Other	University of Arizona

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Project 2: Immunological susceptibility of autism	$136,641	Q2.2	University of California, Davis
Is autism a mitochondrial disease?	$60,000	Q2.2	University of California, Davis
Primate models of autism	$727,322	Q2.2	University of California, Davis
The role of the amygdala in autism	$149,268	Q2.Other	University of California, Davis
Cognitive control in autism	$144,251	Q2.Other	University of California, Davis
Core B: Outreach and translation	$85,017	Q2.Other	University of California, Davis
Genetics and physiology of social anxiety in fragile X	$157,300	Q2.Other	University of California, Davis
Immune molecules and cortical synaptogenesis: Possible implications for the pathogenesis of autism	$150,000	Q2.Other	University of California, Davis
Neural basis of socially driven attention in children with autism	$28,000	Q2.5	University of California, Los Angeles
The imaging core	$318,616	Q2.Other	University of California, Los Angeles
Mirror neuron and reward circuitry in autism	$315,592	Q2.Other	University of California, Los Angeles
A combined fMRI-TMS study on the role of the mirror neuron system in social cognition: Moving beyond correlational evidence	$150,000	Q2.Other	University of California, Los Angeles
Genetics of language & social communication: Connecting genes to brain & cognition	$326,310	Q2.Other	University of California, Los Angeles
Genetics of autistic disorder	$916	Q2.2	University of California, San Diego
Collaborative neuropathology workgroup: A comprehensive multilevel analysis of frontal lobe microstructure in autism	$166,000	Q2.5	University of California, San Diego
Stereological analyses of neuron numbers in frontal cortex from age 3 years to adulthood in autism	$150,000	Q2.5	University of California, San Diego
Attentional abnormalities in autism: An electronphysiological study of the basal forebrain and central nucleus of the amygdala	$60,000	Q2.Other	University of California, San Diego
Neuroligins and neurexins as autism candidate genes: Study of their association in synaptic connectivity	$60,000	Q2.Other	University of California, San Diego
FMRI studies of neural dysfunction in autistic toddlers	$604,727	Q2.Other	University of California, San Diego
Development of neural pathways in infants at risk for autism spectrum disorders	$328,313	Q2.Other	University of California, San Diego
The role of the autism-associated gene Tuberous Sclerosis Complex 2 (TSC2) in presynaptic development	$55,000	Q2.Other	University of California, San Diego
Imaging the autistic brain before it knows it has autism	$222,866	Q2.Other	University of California, San Diego
Studying the biology and behavior of autism at 1-year: The well-baby check-up appointment	$237,015	Q2.Other	University of California, San Diego
Biomedical informatics research network: National Database for Autism Research	$160,000	Q2.Other	University of California, San Diego

Project Title	Funding	Strategic Plan Objective	Institution
Magnetic source imaging and sensory behavioral characterization in autism	$166,302	Q2.Other	University of California, San Francisco
Roles of Wnt signaling/scaffolding molecules in autism	$28,000	Q2.Other	University of California, San Francisco
Gamma band dysfunction as a local neuronal connectivity endophenotype in autism	$61,000	Q2.5	University of Colorado Denver
Mimicry and imitation in ASDs	$32,000	Q2.5	University of Connecticut
Molecular basis of autism associated with human adenylosuccinate lyase gene defects	$30,000	Q2.Other	University of Delaware
Neurobiology of spatial reversal learning	$20,651	Q2.Other	University of Delaware
Emotional mimicry in children with autism	$47,140	Q2.Other	University of Denver
The genetics of restricted, repetitive behavior: An inbred mouse model	$60,000	Q2.Other	University of Florida
FMRI studies of cerebellar functioning in autism	$47,500	Q2.5	University of Illinois at Chicago
Cognitive affective and neurochemical processes underlying is in autism	$377,097	Q2.Other	University of Illinois at Chicago
Autism: Role of oxytocin	$27,862	Q2.2	University of Kansas Medical Center
Exploring functional brain connectivity for visual cognition in autism spectrum disorder	$60,000	Q2.5	University of Kentucky
Functional neuroanatomy of developmental changes in face processing	$302,360	Q2.Other	University of Kentucky
The effect of interneuron loss on minicolumn structure	$64,376	Q2.Other	University of Louisville
Etiology of sleep disorders in ASD: Role of inflammatory cytokines	$112,500	Q2.Other	University of Maryland, Baltimore
Chromatin alterations in Rett syndrome	$271,798	Q2.Other	University of Massachusetts Medical School
Impact of innate immunity on regressive autism	$110,000	Q2.2	University of Medicine & Dentistry of New Jersey
Cognitive control and social engagement among younger siblings of children with autism	$28,000	Q2.Other	University of Miami
FMRI evidence of genetic influence on rigidity in ASD	$28,000	Q2.5	University of Michigan
Neural correlates of serotonin transporter gene polymorphisms and social impairment in ASD	$150,000	Q2.5	University of Michigan
MRI measures of neural connectivity in Asperger's disorder	$186,327	Q2.Other	University of Michigan
GABAergic dysfunction in autism	$294,333	Q2.Other	University of Minnesota
Serotonin, corpus callosum, and autism	$327,250	Q2.Other	University of Mississippi Medical Center
The neural correlates of transient and sustained executive control in children with autism spectrum disorder	$60,000	Q2.5	University of Missouri
Multisensory processing in autism	$145,000	Q2.5	University of North Carolina at Chapel Hill

Project Title	Funding	Strategic Plan Objective	Institution
MRI study of brain development in school age children with autism	$150,000	Q2.5	University of North Carolina at Chapel Hill
A longitudinal MRI study of infants at risk for autism	$2,726,522	Q2.5	University of North Carolina at Chapel Hill
A longitudinal MRI study of infants at risk for autism-Supplemental	$622,534	Q2.5	University of North Carolina at Chapel Hill
NrCAM, a candidate susceptibility gene for visual processing deficits in autism	$150,000	Q2.Other	University of North Carolina at Chapel Hill
Sex differences in early brain development; Brain development in Turner Syndrome	$147,884	Q2.Other	University of North Carolina at Chapel Hill
Maternal responsivity and the development of children with FXS	$314,520	Q2.Other	University of North Carolina at Chapel Hill
Neuropharmacology of motivation and reinforcement in mouse models of autistic spectrum disorders	$150,000	Q2.Other	University of North Carolina School of Medicine
Pathway-based genetic studies of autism spectrum disorder	$60,000	Q2.Other	University of Pennsylvania
Diffusion tensor MRI + histopathology of brain microstructure + fiber pathways	$24	Q2.Other	University of Pittsburgh
Systems connectivity + brain activation: Imaging studies of language + perception	$487,050	Q2.Other	University of Pittsburgh
Disturbances of affective contact: Development of brain mechanisms for emotion	$104,906	Q2.Other	University of Pittsburgh
Mental health conferences: Comparative & primate studies	$1	Q2.Other	University of Pittsburgh
Engrailed and the control of synaptic circuitry in Drosophila	$112,500	Q2.Other	University of Puerto Rico Medical Sciences
Neural basis of audiovisual integration during language comprehension in autism	$30,000	Q2.5	University of Rochester
Vulnerability phenotypes and susceptibility to environmental toxicants: From organism to mechanism	$110,000	Q2.Other	University of Rochester
Identification of UBE3A substrates using proteomic profiling in Drosophila	$60,000	Q2.Other	University of Tennessee Health Science Center
Visual perspective-taking and the acquisition of American Sign Language by deaf children with autism	$28,000	Q2.5	University of Texas at Austin
Cerebellar anatomic and functional connectivity in autism spectrum disorders	$254,625	Q2.Other	University of Texas at Austin
Mouse models of the neuropathology of Tuberous Sclerosis Complex	$258,136	Q2.Other	University of Texas Health Science Center at Houston
Developmental versus acute mechanisms mediating altered excitatory synaptic function in the fragile X syndrome mouse model	$150,000	Q2.Other	University of Texas Southwestern Medical Center
Animal models of autism: Pathogenesis and treatment	$100,000	Q2.Other	University of Texas Southwestern Medical Center

Project Title	Funding	Strategic Plan Objective	Institution
Deriving neuroprogenitor cells from peripheral blood of individuals with autism	$60,000	Q2.2	University of Utah
Quantifying white matter connectivity in autism	$61,000	Q2.5	University of Utah
Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study	$507,505	Q2.Other	University of Utah
Investigation of the link between early brain enlargement and abnormal functional connectivity in autism spectrum disorders	$120,000	Q2.5	University of Washington
Electrical measures of functional cortical connectivity in autism	$60,000	Q2.5	University of Washington
Structural and chemical brain imaging of autism	$521,038	Q2.Other	University of Washington
Multimodal brain imaging in autism spectrum disorders	$162,151	Q2.Other	University of Washington
Memory for visual material	$208,829	Q2.Other	University of Washington
Psychophysiological approaches to the study of autism	$26,000	Q2.Other	University of Washington
Newborn screening for fragile X	$152,847	Q2.Other	University of Washington
Impacts of parenting adolescents & adults with autism	$480,757	Q2.5	University of Wisconsin - Madison
Face processing and brain function associated with autistic symptoms in fragile X	$73,500	Q2.Other	University of Wisconsin - Madison
Amygdala structure & biochemistry in adolescents with autism	$27,276	Q2.Other	University of Wisconsin - Madison
Relation of sleep epileptiform discharges to insomnia and daytime behavior	$60,000	Q2.Other	Vanderbilt University
Mouse genetic model of a dysregulated serotonin transporter variant associated with autism	$60,000	Q2.Other	Vanderbilt University
Sleep in children with autism	$1,335	Q2.Other	Vanderbilt University
Development of multisensory cortex: Role of experience	$419,437	Q2.Other	Vanderbilt University
Communication and prosody in autism: A pilot fMRI study using a sib-pair design	$60,000	Q2.5	Washington University in St. Louis
Brain circuitry in simplex autism	$250,000	Q2.Other	Washington University in St. Louis
Neurobiology of affective prosody perception in autism	$228,000	Q2.Other	Washington University in St. Louis
The intersection of autism and ADHD	$152,423	Q2.Other	Washington University in St. Louis
Analysis of brain microstructure in autism using novel diffusion MRI approaches	$60,000	Q2.5	Washington University School of Medicine
The neural basis of social cognition	$325,412	Q2.Other	West Virginia University
Longitudinal neurogenetics of atypical social brain development in autism	$146,082	Q2.5	Yale University
Statistics and research design core	$278,814	Q2.Other	Yale University
Neuroimaging of social perception	$76,470	Q2.Other	Yale University

Project Title	Funding	Strategic Plan Objective	Institution
Caspr2 dysfunction in autism spectrum disorders	$28,000	Q2.Other	Yale University
Neuroimaging studies of connectivity in ASD - 004	$354,401	Q2.Other	Yale University
Slick and slack heteromers in neuronal excitability	$51,278	Q2.Other	Yale University
Social attention in normal and autistic individuals	$48,796	Q2.Other	Yale University
Training in pediatric neurology	$324,270	Q2.Other	Yeshiva University